



FIGURE 2A

DATA COMMITMENT TABLE 216

| REAL REGISTER | COMMITTED VALUE LOG. FIG. | ROB ENTRY INDEX |
|---------------|---------------------------|-----------------|
| EAX           |                           |                 |
| EBX           |                           |                 |
| ECX           |                           |                 |
| EDX           |                           |                 |
| ESI           |                           |                 |
| EDI           |                           |                 |
| EBP           |                           |                 |
| ESP           |                           |                 |
| TMP1          |                           |                 |
| TMP2          |                           |                 |
| ...           |                           |                 |
| TMPn-3        |                           |                 |
| TMPn-2        |                           |                 |
| TMPn-1        |                           |                 |
| TMPn          |                           |                 |

FIGURE 2C

MODIFIED REORDER BUFFER 215

| ENTRY INDEX | EXEC DATA FLAG | MEMORY ADDRESS | INSTRUCTION | ALIAS REGISTERS |
|-------------|----------------|----------------|-------------|-----------------|
| 0           |                |                |             |                 |
| 1           |                |                |             |                 |
| 2           |                |                |             |                 |
| 3           |                |                |             |                 |
| 4           |                |                |             |                 |
| 5           |                |                |             |                 |
| ...         |                |                |             |                 |
| 33          |                |                |             |                 |
| 34          |                |                |             |                 |
| 35          |                |                |             |                 |
| 36          |                |                |             |                 |
| 37          |                |                |             |                 |
| 38          |                |                |             |                 |
| 39          |                |                |             |                 |

FIGURE 2B